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Gerhard Gröger, Lutz Plümer
November 2003 **Proceedings of the eleventh ACM international symposium on Advances in geographic information systems**
Full text available: 🗎 pdf(420.63 KB)   Additional Information: full citation, abstract, references, index terms

This article provides a formal data model to cover many 3D applications in GIS. It is based on a 2D model and preserves the algorithmic and conceptual simplicity of the 2D case as much as possible. Integrity axioms guarantee the consistency of the model in a mathematically provable way. These axioms are effectively and efficiently checkable by automatic procedures. The model extends Digital Terrain Models by allowing for vertical walls and projections like balconies or ledges. The conceptual sim ...

Keywords: 3D, GIS, axioms, completeness, consistency, correctness, maps

2 Inelegant Transportation Systems and Network Algorithms: Network planning using geomorphology
Ingo Petzold, Gerhard Gerhard Gröger, Lutz Lutz Plümer
November 2001 **Proceedings of the ninth ACM international symposium on Advances in geographic information systems**
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Connecting several locations, for example towns by roads, is a typical network planning problem. A first approach would be to connect pairs of nodes (network language term for location) with a straight edge. The result is a connected network not considering the total network length and the average trip length. The construction of new junctions, so called Steiner Points, for reducing the total network length and thereby the global costs is more or less known. On the other hand slopes, obstacles o ...

Keywords: GIS, digital terrain model (DTM), geomorphology, network planning, road planning, steiner points, triangulated irregular network (TIN), water flow

3 Provably correct and complete transaction rules for GIS
Gerhard Gröger, Lutz Plümer
November 1997 **Proceedings of the fifth ACM international workshop on Advances in geographic information systems**
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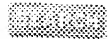
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Johann Schweiger, Andreas Koller
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Stavros A. Zenios
June 1990 **ACM Transactions on Mathematical Software (TOMS)**, Volume 16 Issue 2

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Research in network optimization has reached the stage where large-scale problems-linear
or non-linear, pure or generalized-are solved very efficiently with minimal computing
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2 Performance evaluation of the Orca shared-object system   ▩
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Frans Kaashoek
February 1998 **ACM Transactions on Computer Systems (TOCS)**, Volume 16 Issue 1

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Orca is a portable, object-based distributed shared memory (DSM) system. This article
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other DSMs. The article gives a quantitative analysis of Orca's coherence protocol (based on
write-updates with function shipping), the totally ordered group communication protocol, the
strategy for object placement, and the all-software, user-space architecture. Performance
measurements for 10 parallel applications ill ...

Keywords: distributed shared memory, parallel processing, portability

3 "Topologies"—distributed objects on multicomputers   ▩
Karsten Schwan, Win Bo
May 1990 **ACM Transactions on Computer Systems (TOCS)**, Volume 8 Issue 2

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